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INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's o r agent' s file reference 1640-110.PCT		r agent's file reference T	FOR FURTHER ACTION	see Notification of Transmittal of International Search Re (Form PCT/ISA/220) as well as, where applicable, item 5 below.					
International application No. PCT/US03/25188			International filing date (day/month/year) 13 August 2003 (13.08.2003)		(Earliest) Priority Date (day/month/year) 16 August 2002 (16.08.2002)				
Applicant BISMUTH CARTRIDGE COMPANY									
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.									
This international search report consists of a total of 2 sheets. It is also accompanied by a copy of each prior art document cited in this report.									
Basis of the Report									
	a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.								
	the international search was carried out on the basis of a translation of the international application furnished to the Authority (Rule 23.1(b)). b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing: contained in the international application in written form.								
t									
		filed together with the interr	national application in computer read	l application in computer readable form.					
		furnished subsequently to this Authority in written form.							
		furnished subsequently to this Authority in computer readable form.							
	the statement that the subsequently furnished written sequence listing does not go beyond the disclosure international application as filed has been furnished.								
		the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.							
2.		Certain claims were found	unsearchable (See Box I).		·				
3. 4.	With re	Unity of invention is lacking (See Box II). egard to the title,							
	\boxtimes	the text is approved as submitted by the applicant.							
		the text has been established by this Authority to read as follows:							
5.	With re	regard to the abstract,							
	\boxtimes	the text is approved as submitted by the applicant.							
		the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.							
6.	The fig	ure of the drawings to be pu	blished with the abstract is Figure N	o					
		as suggested by the applicar	nt.		None of the figures				
		because the applicant failed	to suggest a figure.						
		because this figure better ch	naracterizes the invention.						

Form PCT/ISA/210 (first sheet) (July 1998)



International application No.

PCT/US03/25188

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : 86/51 US CL : B21K 21/06 According to International Patent Classification (IPC) or to both national classification and IPC									
According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED									
Minimum documentation searched (classification system followed by classification symbols) U.S.: B21K 21/06									
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched									
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)									
C. DOCUMENTS CONSIDERED TO BE RELEVANT									
Category *	Citation of document, with indication, where a	Relevant to claim No.							
Y	US 5,528,989 A (BRIESE) 25 June 1996 (25.06.199	16-20							
Y	col. 5, line 45 to col. col. 7, line 14. US 5,917,143 A (STONE) 29 June 1999 (29.06.199)	12, 14, 15, 16-20							
Y	US 6,115,894 A (HUFFMAN) 12 Sep. 2000 (12.09	12, 14, 15,							
Y	WO 96/23193 (SCHROEDER) 01 Aug 1996 (01.08.	15							
Further documents are listed in the continuation of Box C. See patent family annex. Special categories of cited documents: "T" later document published after the international filing date or priority.									
* Sp "A" document of particu	emational filing date or priority eation but cited to understand the ention								
"E" earlier ap	document of particular relevance; the considered novel or cannot be conside when the document is taken alone								
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)			"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination						
"O" document	referring to an oral disclosure, use, exhibition or other means		being obvious to a person skilled in th	e art					
"P" document published prior to the international filing date but later than the "&" document member of the same patent family priority date claimed									
Date of the actual completion of the international search 08 November 2004 (08.11.2004) Date of mailing of the international search report									
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Authorized officer Troy Chambers									
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